

22812
#440
1980

Revised Checklist of the Mosses of

New York State

EDWIN H. KETCHLEDGE

Distinguished Teaching Professor
State University of New York
College of Environmental
Science and Forestry
Syracuse

LIBRARY

MAY 29 1980

NEW YORK
BOTANICAL GARDEN

Contributions to a Flora of New York State, Checklist I
Richard S. Mitchell, Editor

1980

Bulletin Number 440

New York State Museum

The University of the State of New York
THE STATE EDUCATION DEPARTMENT
Albany, New York 12230

Digitized by the Internet Archive
in 2017 with funding from
IMLS LG-70-15-0138-15

<https://archive.org/details/bulletinnewyorks4401newy>

Revised Checklist of the Mosses of New York State

EDWIN H. KETCHLEDGE

**Distinguished Teaching Professor
State University of New York
College of Environmental
Science and Forestry
Syracuse**

**Contributions to a Flora of New York State, Checklist I
Richard S. Mitchell, Editor**

1980

Bulletin Number 440

New York State Museum

The University of the State of New York
THE STATE EDUCATION DEPARTMENT
Albany, New York 12230

THE UNIVERSITY OF THE STATE OF NEW YORK

Regents of The University (*with years when terms expire*)

1981	THEODORE M. BLACK, A.B., Litt.D., LL.D., Pd.D., D.C.L., L.H.D. <i>Chancellor</i>	Sands Point
1988	WILLARD A. GENRICH, LL.B., L.H.D., LL.D., Litt.D. <i>Vice Chancellor</i>	Buffalo
1986	KENNETH B. CLARK, A.B., M.S., Ph.D., LL.D., L.H.D., D.Sc.	Hastings on Hudson
1983	HAROLD E. NEWCOMB, B.A.	Owego
1982	EMLYN I. GRIFFITH, A.B., J.D.	Rome
1983	MARY ALICE KENDALL, B.S.	Rochester
1984	JORGE L. BATISTA, B.A., J.D., LL.D.	Bronx
1982	LOUIS E. YAVNER, LL.B.	New York
1986	LAURA BRADLEY CHODOS, B.A., M.A.	Vischer Ferry
1980	MARTIN C. BARELL, B.A., I.A., LL.B.	Kings Point
1981	JOSEPH R. BONGIORNO, B.S., M.D.	Brooklyn
1984	LOUISE P. MATTEONI, B.A., M.A., Ph.D.	Bayside
1981	J. EDWARD MEYER, B.A., LL.B.	Chappaqua
1985	ARLENE B. REED-DELANEY, B.A., M.D.	Albany
1987	R. CARLOS CARBALLADA, B.S.	Arcade

President of The University and Commissioner of Education

GORDON M. AMBACH

Executive Deputy Commissioner of Education

JOSEPH J. BLANEY

Deputy Commissioner for Cultural Education

ROBERT J. MAURER

Director, State Science Service

HUGO JAMNBACK

Chief, Biological Survey

RICHARD H. MONHEIMER

State Botanist

RICHARD S. MITCHELL

PREFACE

OUR GOAL is to produce a useful and authoritative account of the plants of New York State. Our primary means is to publish a series of treatments of families and genera by taxonomists knowledgeable in those groups. Also basic to long-term needs, is the production of checklists of plants known to occur in the State, so that specialists have a sound starting point for their monographic studies. A checklist of vascular plants is also in preparation.

This publication is a revision of a 1957 list by the same author. It incorporates an additional 22 years of field knowledge and herbarium study, gained through the cooperative efforts of Edwin H. Ketchledge and Stanley J. Smith. The publication of this work initiates the bryological sequence of flora contributions for New York State.

RICHARD S. MITCHELL, *Editor*

CONTENTS

	PAGE
Preface	iii
Dedication	v
New York State Flora Committee	vi
Map	vii
Introduction	1
Catalog of species	3
Additions	16
Index to genera and families	17

DEDICATION



STANLEY JAY SMITH

1915–1978

Taxonomist, Colleague, Friend

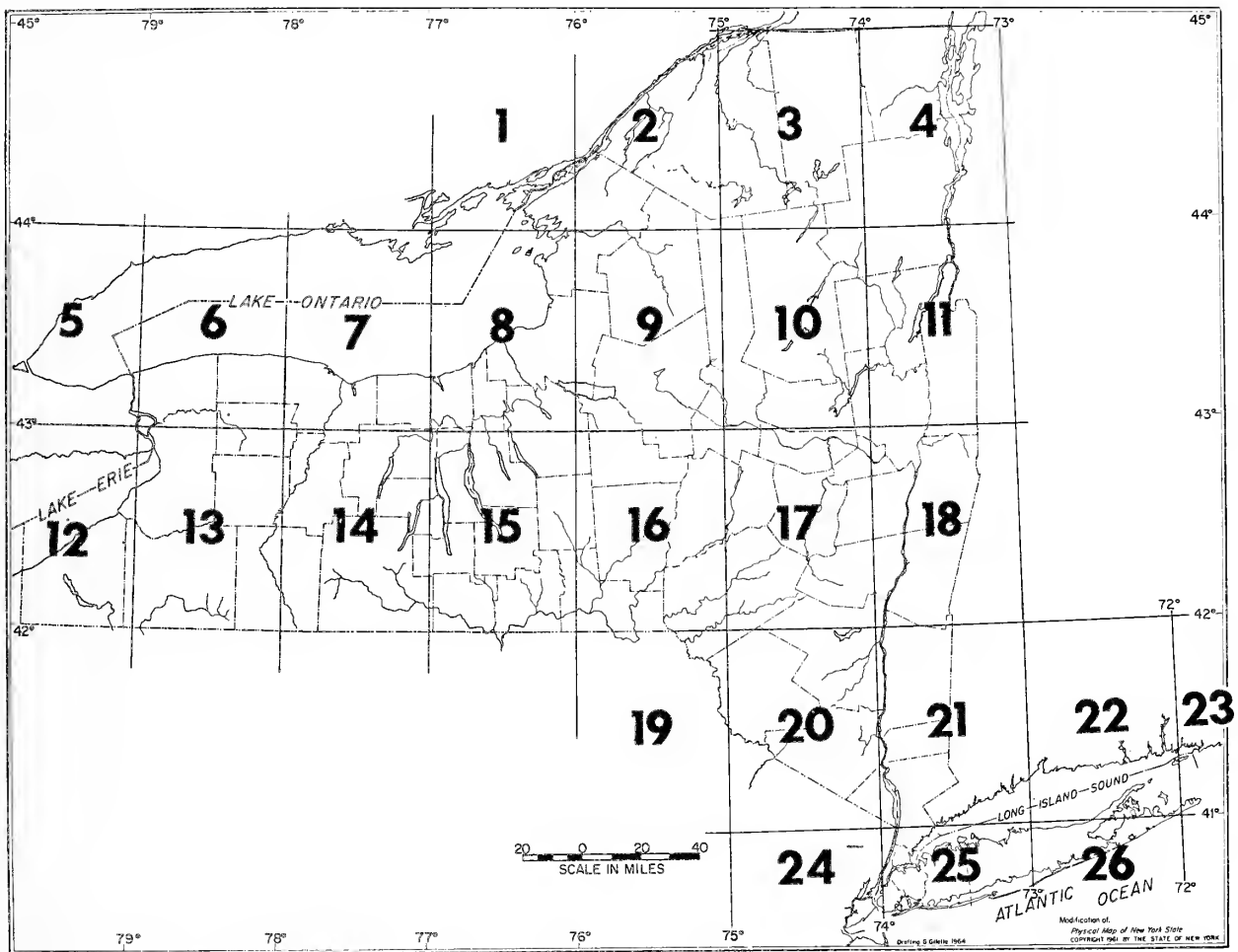
Stanley Jay Smith, by title Curator of Botany at the New York State Museum, was in truth a plant explorer, pioneering public understanding of the composition and the distribution of the flora of the State of New York. To me personally he was also instructing taxonomist for all plant groups, a professional colleague in bryology, and a close personal friend. I now dedicate this publication of our joint bryological efforts to him, Stanley Jay Smith, in recognition of his dedicated assistance to many professional and individual associates during his 30 years of public service to the people of the State of New York.

The New York State Flora Committee

The steering council of the New York State Flora Committee met for the first time on January 19, 1976, and established as its goals the promotion of study of the State's plant resources and the publication of this series of Museum Bulletins. These contributions will be continually updated after publication for possible incorporation into larger volumes at a later date.

Members of the council at the time of this publication are:

Richard S. Mitchell, Chairman, State Botanist, N.Y. State Museum, Albany (Vascular Plants)
Charles J. Sheviak, Curator of Botany, N.Y. State Museum, Albany (Vascular Plants)
Robert T. Clausen, Botany Department, Cornell University, Ithaca (Vascular Plants)
Edwin H. Ketchledge, College of Environmental Science and Forestry, Syracuse (Bryophytes)
Clark T. Rogerson, New York Botanical Garden, New York (Fungi)
George J. Schumacher, Biology Department, SUNY, Binghamton (Algae)



Distributional Districts. The numbers of districts on this map correspond with those heading the checklist.

INTRODUCTION

This Revised Checklist of the Mosses of New York State is an update of the earlier State Checklist published as Museum Bulletin Number 363 in 1957. The new catalog of species represents our expanded understanding of the floristic diversity and distribution of mosses in the State after 22 years of further study. Release of the Revised Checklist now concludes the inventory phase of our preparations of a State Moss Flora.

Nomenclature for Bryidae (453 species) and Andreaeidae (3 species), follows "A New List of Mosses of North America North of Mexico" by H. A. Crum, W. C. Steere and L. E. Anderson, *THE BRYOLOGIST* 76(1):85-130, 1973. Nomenclature of Sphagnidae (46 species) follows "Sphagnotheca Boreali-americana: A New Exsiccata of North American Sphagna North of Mexico," *THE BRYOLOGIST* 78(1):64-66 and "Sphagnotheca Boreali-americana: Fascicle II," *THE BRYOLOGIST* 80(4):645-647, both by Richard E. Andrus and Dale H. Vitt. All district records of Sphagna, both new records and verification of old ones, result from the research of Dr. Andrus, whose exclusive authorship of Sphagnidae is gratefully acknowledged.

Comparison of the number of taxa herewith reported reveals only a slight change from the first edition. The number of families has increased by 2 (to 47 families now), the number of genera by 4 (to 151), the species by 22 (to 461) and the number of atypical varieties reduced by 19 (to 42). More importantly, 897 district records are new to the list, an increase from 4,035 to 4,932; the majority of these additions were discovered by the author and his students at the College of Environmental Science and Forestry, and by Stanley J. Smith and his colleagues at the State Museum and Science Service. Many other botanists collecting on their own joined in the search over the years. In all, the names of over 60 field investigators are found on the labels of these additions and on hundreds of duplicates, thereby reflecting the increasing interest in bryological exploration around the State in recent years.

Even today, however, the district records are concentrated in the Adirondack (mostly Districts 3, 4, 10, 11) and Catskill (17, 18, 20) Mountains and in two western districts where professional bryologists have been most active, around Ithaca (District 15) and Buffalo (District 13).

District Records

District 1, 79 records	District 14, 197 records
District 2, 109 records	District 15, 286 records
District 3, 264 records	District 16, 156 records
District 4, 297 records	District 17, 313 records
District 5, 90 records	District 18, 289 records
District 6, 206 records	District 19, 81 records
District 7, 85 records	District 20, 255 records
District 8, 181 records	District 21, 151 records
District 9, 190 records	District 22, 160 records
District 10, 259 records	District 23, 78 records
District 11, 322 records	District 24, 151 records
District 12, 93 records	District 25, 218 records
District 13, 267 records	District 26, 148 records

The lower numbers of occurrences in several districts, of course, reflect the smaller land area in those "square" degrees of longitude and latitude.

Symbols for district records remain essentially identical to those of the 1957 list, namely,

- X = specimen examined and verified
- M = personal communication from
monographer or professional
bryologist
- L = literature report of species
present
- V = vicinity approximate
- ? = questioned report or locality

In addition to the indispensable contributions of Stanley J. Smith and Richard E. Andrus to the new revised list, several other recognized bryologists provided assistance when called upon from time to time. Dr. William C. Steere, who greatly aided with verifications in the first list, continues to be an inspiration, certainly for his taxonomic insights but especially for his enthusiasm and high scholarship, which is the envy and the aspiration of us all. Howard A. Crum over the years helped both Stanley and me with difficult determinations, and was unstinting in his bryological-nomenclatorial services to us. Norton G. Miller has been our most talented field investigator, turning up many exciting finds, and whose absence from the State now is sorely felt. Gary L. Smith, with similar talents, lent his expertise to difficult determinations or nomenclatorial problems, for which we are most appreciative. Both in the field and at the microscope, Nancy Slack was a stimulating associate, with discerning eyes for taxonomic subtleties and unerring "sense" of species identity. Babette Brown Coleman and her associates have been very helpful "filling in" the bryoflora of the Genesee region. And Richard Zander, in his monographic works, and Eric Randall, in his ecological studies, are now accumulating additional records from the western portion of the State. To these and other unnamed collaborators and field associates — particularly those who accompanied Stan or Dick or me on innumerable field trips these two decades — I extend my heartfelt thanks for their assistance, and I look forward to their individual participation in the preparation of the Moss Flora, now underway.

CATALOG OF SPECIES

Distributional Districts

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
SUBCLASS SPHAGNIDAE																										
ORDER SPHAGNALES																										
SPHAGNACEAE																										
<i>Sphagnum</i>																										
<i>angermanicum</i> Melin																										X
<i>angustifolium</i> (Russow) C. Jens.	X	X	X			X	X	X	X	X	X		X	X	X	X	X	X	X	X		X				X
<i>centrale</i> C. Jens.	X	X	X			X		X	X	X	X		X	X		X	X	X	X	X						
<i>compactum</i> DC.	X	X	X							X	X		X					X	X	X		X				X
<i>contortum</i> K. F. Schultz			X								X		X		X			X	X							
<i>cuspidatum</i> Hoffm.		X	X					X	X	X	X	X	X	X	X	X	X	X	X	X		X		X		X
<i>fallax</i> (Klinggr.) Klinggr.	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X		X		X		X
<i>fimbriatum</i> Wils.		X	X			X	X	X	X	X	X		X	X	X	X	X	X	X	X		X	X	X		X
<i>flavicomans</i> (Card.) Warnst.																						X	X		X	X
<i>flexuosum</i> Dozy & Molk.	X	X	X					X	X	X	X		X		X	X	X	X	X	X						X
<i>fuscum</i> (Schimp.) Klinggr.	X	X	X			X		X	X	X	X		X	X		X	X	X	X	X						X
<i>girgensohnii</i> Russow	X	X	X			X		X	X	X	X		X	X	X	X	X	X	X	X		X				X
<i>henryense</i> Warnst.						X		X	X				X		X	X	X	X	X	X		X	X	X		X
<i>imbricatum</i> Russow		X	X			X			X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X
<i>jensenii</i> H. Lindb.		X																								
<i>lescuri</i> Sull.	X	X	X						X	X	X		X	X		X	X	X	X	X		X	X		X	X
<i>lindbergii</i> Lindb.			X																							
<i>macrophyllum</i> Brid.																										X
<i>magellanicum</i> Brid.		X	X			X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X
<i>majus</i> (Russow) C. Jens.		X	X					X	X	X	X		X	X	X	X	X	X								
<i>molle</i> Sull.																							X			X
<i>nemoreum</i> Scop.	X		X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X				X		X
<i>palustre</i> L.		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
<i>papillosum</i> Lindb.			X	X				X	X	X	X		X	X	X	X		X	X			X	X		X	X
<i>platyphyllum</i> (Braithw.) Warnst.										X									X							
<i>portoricense</i> Hampe																										X
<i>pulchrum</i> (Braithw.) Warnst.		X	X							X	X							X								X
<i>pylaesii</i> Brid.		X	X							X																
<i>quinquefarium</i> (Braithw.) Warnst.		X	X							X	X						X		X							
<i>recurvum</i> P.-Beauv.										X								X				X	X	X	X	X
<i>riparium</i> Angstr.		X	X							X				X			X	X	X							X
<i>rubellum</i> Wils.		X	X			X	X	X	X	X	X	X		X			X	X	X				X	X	X	X
<i>russowii</i> Warnst.	X	X	X	X		X		X	X		X	X	X	X	X	X	X	X		X		X		X		X
<i>squarrosus</i> Crome		X	X	X		X		X	X	X	X		X	X	X	X	X	X	X	X		X	X			X
<i>strictum</i> Sull.																				X						X
<i>subfulvum</i> Sjörs				X							X															
<i>subsecundum</i> Nees		X	X					X	X	X	X				X		X	X								X
<i>subtile</i> (Russow) Warnst.	X	X	X			X		X	X			X		X	X	X	X	X	X			X	X		X	X
<i>tenellum</i> (Brid.) Brid.		X	X																	X						X
<i>tenerum</i> Sull. & Lesq.																						X		X		X
<i>tenuifolium</i> Warnst.		X						X																		
<i>teres</i> (Schimp.) Ångstr.	X	X	X			X		X	X	X	X		X	X	X	X	X	X	X	X						X
<i>torreyanum</i> Sull.									X	X								X	X			X	X	X	X	X
<i>trinitense</i> C. Muell.																						X	X			X
<i>warnstorffii</i> Russow	X	X	X			X		X	X	X	X		X	X	X	X	X	X	X	X						X
<i>wulfianum</i> Girg.		X	X						X	X	X		X	X	X	X	X	X								

SUBCLASS ANDREAEIDAE

ORDER ANDREAEALES
ANDREAEACEAE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Andreaea																										
crassinervia Bruch				X																						
rothii Web. & Mohr			X	X		X			X		X	X					X		X		X				X	
rupestris Hedw.		X	X	X					X	X	X	X					X	X	X		X				X	

SUBCLASS BRYIDAE

ORDER FISSIDENTALES
FISSIDENTACEAE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Fissidens																										
adiantoides Hedw.	X	X	X	X	X	X		X	X	X	X	X	X	X	X	L	X	X		X					X	X
bryoides Hedw. var. bryoides						X		X		X	X	X	X	X	X	X	X	X		X						
var. incurvus (Starke ex Web. & Mohr) Roehl.																		X								
bushii (Card. & Thér.) Card. & Thér.						L		X					X								X					
cristatus Wills ex Mitt.		X	X	X	X	X		X	X	X	X	X	X	X	X		X	X		X					X	
exiguus Sull.										X			X		X		X	X								
exilis Hedw.						X		X		X			X		X		X	X		M						
fontanus (B.-Pyl.) Steud.		X				X				X			X				X	X		X		X			X	
grandifrons Brid.					X		X	X	X		?		X	X	X	X										
hallianus (Sull. & Lesq. ex Aust.) Mitt.										L																
obtusifolius Wils.																						X		X		
osmundoides Hedw.		X	X	X				X	X	X	X	X		X		X	X	X		X		X			X	
subbasilaris Hedw.									X		X		X		X			X	X							
taxifolius Hedw.	X			X	L	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X		X	X	
viridulus (Sw.) Wahlenb.	X		X	X		X		X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	

ORDER ARCHIDIALES
ARCHIDIACEAE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Archidium																										
alternifolium (Hedw.) Schimp.																										V
ohioense Schimp. ex C. Muell.																					X					

ORDER DICRANALES
DITRICHACEAE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Ceratodon																										
purpureus (Hedw.) Brid.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Distichium																										
capillaceum (Hedw.) B.S.G.			X	X		X					?									?						
Ditrichum																										
ambiguum Best																									L	
lineare (Sw.) Lindb.			X	X		X			X		X	X					X	X		X		X	X	X	X	
pallidum (Hedw.) Hampe						X		X			X	X	X	X			X	X	X	X		X	X	X	X	X
pusillum (Hedw.) Hampe			X	X					X		X		X	X	X		X	X	X		X	X	X	X	X	X
Pleuroidium																										
palustre (Bruch & Schimp.) B.S.G.									X															X	X	
subulatum (Hedw.) Rabenh.						X	X	X			X	X	X		X		X	X	X		X	X	X	X	X	
Saelania																										
glaucescens (Hedw.) Bomanss. & Broth.			X	X					X		X			X			X		X		X					

SELIGERIAACEAE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Blindia																										
acuta (Hedw.) B.S.G.			X	X					X	X	X						X									
Seligeria																										
calcareia (Hedw.) B.S.G.					X						X															
campylopoda Kindb. ex Macoun & Kindb.						X		X					V													
denniana (Smith) C. Muell.									X		X															
recurvata (Hedw.) B.S.G.					X			X							V											

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
DICRANACEAE																										
Arctoa																										
fulvella (Dicks.) B.S.G.				X																						
Bruchia																										
flexuosa (Sw. ex Schwaegr.) C. Muell.																		X						L		
sullivantii Aust.										X								X					X	X	X	
Cynodontium																										
alpestre (Wahlenb.) Milde				X	X																					
strumiferum (Hedw.) Lindb.				X	X																					
Dichodontium																										
pellucidum (Hedw.) Schimp.				X	X	X					L				X		X			X		X				
Dicranella																										
cerviculata (Hedw.) Schimp.				X								L													?	X
heteromalla (Hedw.) Schimp.	X	X	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
rufescens (With.) Schimp.									L	X	X			X			X	X	X	X		X		X	X	
schreberiana (Hedw.) Schimp.				X						X				X	X		X	X	X							
var. robusta Schimp. ex Braithw.														X												
subulata (Hedw.) Schimp.																				X						
varia (Hedw.) Schimp.				X		X		X			X	X	X	X		X	X	X		X				X	X	
Dicranodontium																										
denudatum (Brid.) Britt. ex Williams				X	X					X			X				X		X							
Dicranoweisia																										
crispula (Hedw.) Lindb. ex Milde				X																						
Dicranum																										
bonjeanii De Not. ex Lisa	X		L	X	X	X		X		X	L	X		X				X	X			X		X		
drummondii C. Muell.				X						X	X							X	X	X		X				X
elongatum Schleich. ex Schwaegr.				X	X																					
flagellare Hedw. var. flagellare	X	X	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
var. minutissimum Grout																									X	X
fulvum Hook.			X	X	X	L			X		X	X	X	X			X	X	X	X		X	X	X	X	X
fuscescens Turn.			X	X		X			X				L				X	X	X					X		
groenlandicum Brid.				X																						
montanum Hedw.	X	X	X	X	V	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
muehlenbeckii B.S.G.				X						X					X		X	X								
polysetum Sw.	X	X	X	X		X	X		X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X
sabuletorum Ren. & Card.	X		X			L							L					X	X			X	X	X		X
scoparium Hedw.	X	X	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
spurium Hedw.			X	X							X	X		X			X	X	X		X			X		X
undulatum Brid.			X	X				L	X		X							X		L		X		X		
viride (Sull. & Lesq. ex Sull.) Lindb.	X	X	X	X	X				X	X	X	X	X	X	X		X	X	X	X						
Kiaeria																										
blyttii (Schimp.) Broth.			X	X							?															
starkei (Web. & Mohr) Hag.			X	X																						
Oncophorus																										
wahlenbergii Brid.		X	X	X		X	X	X	X		X	X	X	X	X		X	X	X	X		X		X		
Paraleucobryum																										
longifolium (Hedw.) Loeske		X	X	X		X			X	X	X	L		X		X	X	X	X		X	X		X		
Rhabdoweisia																										
crispata (With.) Lindb.			X	X					X	X	X	X	X	X	X		X	X	X							
Trematodon																										
ambiguus (Hedw.) Hornsch.			X	X					X		X	X	X			X	X							X		
LEUCOBRYACEAE																										
Leucobryum																										
albidum (Brid. ex P.-Beauv.) Lindb.																								X		
glaucum (Hedw.) Ångstr. ex Fr.	X	X	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
CALYMPERACEAE																										
Syrrophodon																										
incompletus Schwaegr.																									L	
texanus Sull.																									L	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
ENCALYPTACEAE																											
Encalypta																											
ciliata Hedw. var. ciliata			X	X		X			X		X			X	X		X	X			X						
var. microstoma (Bal. & De Not.)																											
Schimp.					V																						
procera Bruch	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X			X					L	
rhaptocharpa Schwaegr.											X																
ORDER POTTIALES																											
POTTIACEAE																											
Acaulon																											
muticum (Hedw.) C. Muell. var. muticum . .													X											X	L		
var. rufescens (Jaeg.) Crum						L																			V		
triquetrum (Spruce) C. Muell.												X	L														
Anoetangium																											
aestivum (Hedw.) Mitt.																	X										
Astomum																											
muhlenbergianum (Sw.) Grout						X					X			L	X			X		V	X			X	X		
phascooides (Hook. ex Drumm.) Grout																		X									
Barbula																											
convoluta Hedw.			X	X		X					X		X	L	X		X	X	X							L	
fallax Hedw.	X				X	X				X	X		X	X	X		X	X	X		X						
reflexa (Brid.) Brid.					X					X					X						X						
unguiculata Hedw.	X		X		X	X	X	X	X	X	X		X	X	X		X	X	X	X	X			X	X		
Bryoerythrophyllum																											
recurvirostrum (Hedw.) Chen					X	X			X	X	X		X	X	X		X	X		X		X	X				
Desmatodon																											
obtusifolius (Schwaegr.) Schimp.					X	L		L					X	X													
porteri James ex Aust.					L																						
Didymodon																											
rigidulus Hedw.					X						X						X		X								
tophaceus (Brid.) Lisa					X	X			X				X	X	X		X	X				X					
Gymnostomum																											
aeruginosum Smith			X	X	X	X			X	X	X		X	X	X		X	X			X			X			
calcareum Nees, Hornsch. & Sturm					X				X	X	X		X	X	L	X		X									
recurvirostrum Hedw.			X	X	X	L		X	X	X	X		X	X	X		X	X		X				X	L	X	
Hyophila																											
involuta (Hook.) Jaeg. & Sauerb.					X						X			X					?	V	X						
Phascum																											
cuspidatum Hedw.						X	X	X			X	X	X	X	X		X		X					X	X		
Pottia																											
truncata (Hedw.) Fuernr. ex B.S.G.						X	X	X	X	X	X	X	X	X	X		X	X	X		X			X	X		
Tortella																											
fragilis (Drumm.) Limpr.					X	X			X		X						X		X						X		
humilis (Hedw.) Jenn.	X				X	X			X	X	X		X	X			X	X		X	X	X	X	X	X	X	
tortuosa (Hedw.) Limpr.	X	X	X	X	X	X			X	X	X	X		X	X		X	X	X		X	X		X			
Tortula																											
mucronifolia Schwaegr.			X		X	X		X	X	X	X		X	X	X		X	X	X							X	
muralis Hedw.									X								X	X			X			X	X		
papillosa Wils. ex Spruce																				X				X	X		
ruralis (Hedw.) Gaertn., Meyer & Scherb.																											
var. ruralis	X	X			X			X	X	X	X		X	X			X	X									
var. crinita De Not.																			X								
Trichostomum																											
tenuirostre (Hook. & Tayl.) Lindb.					X	X			X				X	X			X		X		X						
Weissia																											
contraversa Hedw.	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X	X		X	X		X	X		

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
ORDER GRIMMIALES																										
GRIMMIACEAE																										
Grimmia																										
affinis Hoppe & Hornsch. ex Hornsch.					X																					
agassizii (Sull. & Lesq. ex Sull.)																										
Jaeg. & Sauerb.			X	X						X	X															
alpicola Hedw. var. alpicola	X		X	X		X				X	X	X		X			X	X		X						
var. dupretii (Thér.) Crum			X								?						X									
var. rivularis (Brid.) Wahlenb.			M														X	X								
apocarpa Hedw. var. apocarpa	X	X	X	X	X	L	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X		X	X	
var. ambigua (Sull.) Jones				X							X						X	X	X	X		X				
var. conferta (Funck) Spreng.				X							X	X	X		X		X	X			X					
var. stricta (Turn.) Hook. & Tayl.			X	X						X	X							X	X					X		
cribrosa Hedw.																		X								
donniana Sm.			X	X						X	X						X									
laevigata (Brid.) Brid.																			X			X	X			
olneyi Sull.	X		X							X	X			X			X	X	X	X	X	X				
pilifera P.-Beauv.			X								X			X			X	X		X			X	X		
tenerrima Ren. & Card.			X														X	X								
unicolor Hook. ex Grev.			X			L				X	X						X									
Racomitrium																										
aciculare (Hedw.) Brid.			X	X					X	X	X						X	X		X		X	X		X	
aquaticum (Brid. ex Schrad.) Brid.			X																							
canescens (Hedw.) Brid.				X						X	X						X									
fasciculare (Hedw.) Brid.			X	X							?									X						
heterostichum (Hedw.) Brid. var.																										
heterostichum			X	X						X	X						X									
var. alopecurum Hueb.			X	X						X	X						X			X						
var. microcarpon (Hedw.) Boul.			X	X							X							X		X					X	
var. sudeticum (Funck) Dix. ex Bauer			X	X															X							
ORDER FUNARIALES																										
DISCELIACEAE																										
Discelium																										
nudum (Dicks.) Brid.											X		X				X	X								
EPHEMERACEAE																										
Ephemerum																										
cohaerens (Hedw.) Hampe								X						X												
crassinervium (Schwaegr.) Hampe	X					X					L			X			X						X	X		
serratum (Hedw.) Hampe													X	X										X	X	
spinulosum Bruch & Schimp. ex Schimp.														X								X		X	X	
Micromitrium																										
austinii Aust.																					X			X		
megalosporum Aust.																						X				
FUNARIAACEAE																										
Aphanorrhagma																										
serratum (J. Hook. & Wils. ex Drumm.) Sull.													X	X		X	X	X		X			X	X		
Funaria																										
flavicans Michx.					X	L							X				X					L		X	X	
hygrometrica Hedw. var. hygrometrica	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
var. calvescens (Schwaegr.) Mont.											V															
Physcomitrella																										
patens (Hedw.) B.S.G.						X		X					L	X				X								
Physcomitrium																										
hookeri Hampe															X											
immersum Sull.													X	X				X								
pyriforme (Hedw.) Hampe			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
SPLACHNACEAE																											
Splachnum																											
ampullaceum Hedw.			X							X	X																
rubrum Hedw.			X																								
Tayloria																											
serrata (Hedw.) B.S.G.				X																							
Tetraplodon																											
angustatus (Hedw.) B.S.G.				X													X										
mnioides (Hedw.) B.S.G.				X							X						X										
ORDER SCHISTOSTEGALES																											
SCHISTOSTEGACEAE																											
Schistostega																											
pennata (Hedw.) Web. & Mohr			X	X						X						X		X		X							
ORDER EUBRYALES																											
BRYACEAE																											
Bryum																											
algovicum Sendt. ex C. Muell.						L																					
alpinum With.				L																							
angustirete Kindb. ex Macoun										X	X	X	X	X			X	X									
argenteum Hedw.	X	X	X	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X	X
bicolor Dicks.										X																	
caespiticiu Hedw.	X			X		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		
capillare Hedw. var. flaccidum (Brid.) B.S.G.	X		X	X		X		X		X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	
creberrimu Tayl.			X	X	X	X	X	X		X	X	X	X	X			X	X	X	X		X			X		
gemmaiparum De Not.															X		X										
muehlenbeckii B.S.G.										X	X						X		X								
pallens (Brid.) Sw. ex Roehl.			X	X					X	X					X			X									
pallescens Schleich. ex Schwaegr.				X							X							X									
pseudotriquetrum (Hedw.) Gaertn., Meyer																											
& Scherb. var. pseudotriquetrum	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	
var. bimum (Schreb.) Lilj.														L													
tenuisetum Limpr.										L																	
tortifolium Funck ex Brid.														X			X								L		
turbinatum (Hedw.) Turn.					X					X			X														
uliginosum (Brid.) B.S.G.				X		X				X	X		X	X			X	X				X			X		
weigeli Spreng.										X	L																
Leptobryum																											
pyriforme (Hedw.) Wils.			X	X		X		X	X	X	X	X	X	L	X	X	X	X	X	X			X	X	X	X	X
Mielichhoferia																											
mielichhoferi (Funck ex Hook.) Loeske													X														
Pohlia																											
annotina (Hedw.) Lindb. var. annotina			X	X		L					X																
var. decipiens Loeske			X	X					X	X	X	X		X			X	X	X		X			X	X		X
atropurpurea (Wahlenb.) H. Lindb.													X														
bulbifera (Warnst.) Warnst.			X	X					X	X	X						X										
carnea (Turn.) Lindb.									X		X			X				X									
cruda (Hedw.) Lindb.			X	X						X	X						X		X					X	X		
drummondii (C. Muell.) Andr.			X	X																X							
elongata Hedw.			X	X		L				X			X							V							
filiformis (Dicks.) Andr.				X							X						X		X								
lescuriana (Sull.) Grout				X		L				X	X			X			X	X	X		X			X	X		
longicolla (Hedw.) Lindb.				X																							
nutans (Hedw.) Lindb.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
proliger (Kindb. ex Limpr.) Lindb.																											
ex Arnell			X	X																							
rothii (Corr. ex Limpr.) Broth.			X	X						X	X												X				
sphagnicola (B.S.G.) Lindb. & Arnell			X	X																							
wahlenbergii (Web. & Mohr) Andr.			X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X		X	X		
Rhodobryum																											
roseum (Hedw.) Limpr.	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
MNIACEAE																											
Cinclidium																											
stygium Sw.						X																					
Mnium																											
ciliare (C. Muell.) Schimp.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
cinclidioides Hueb.			X	X		X		X	X		X		X	X	X		X			X		X	X				X
cuspidatum Hedw.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
drummondii Bruch & Schimp.				X							X		X	L	X		X	X									
hornum Hedw.			X	X					X	X	L		L				X	X	X	X		L	X	X	X	X	X
hymenophylloides Hueb.			X	X					X								X										
lycopodioides Schwaegr.			M	X						X	L						X		X								
marginatum (With.) Brid. ex P.-Beauv.				X		X		X		X	X		X	L	X		X	X	X	X	X	X					V
medium B.S.G.					X		X	L		X	X				X		X	X		X	X						
punctatum Hedw. var. punctatum		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X
var. elatum Schimp.		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X
rostratum Schrad.				X	X	X					X			X	X		X	X	X		X	L		X	X		
rugicum Laur.				X																							
spinulosum B.S.G.			X	X		X			X	X	X		X	X	X	X	X	X	X		X						
stellare Hedw.			X	X		X				X	X		X	L	X		X	X	X	X	X	L					
thomsonii Schimp.		X	X	X	X				X	X	X		X		X		X	X	X								
AULACOMNIACEAE																											
Aulacomnium																											
androgynum (Hedw.) Schwaegr.			X	X		L		X			X																
heterostichum (Hedw.) B.S.G.				X		X	X	X	X	X	X	X	X	X	X		X	X	X		X		X	X	X	X	X
palustre (Hedw.) Schwaegr.		X	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X
turgidum (Wahlenb.) Schwaegr.				X																							
MEESIAACEAE																											
Amblyodon																											
dealbatus (Hedw.) B.S.G.																	X										
Meesia																											
longiseta Hedw.											X							X									
triquetra (Richt.) Ångstr.											X		L		X												
uliginosa Hedw.											X			L				X									
Paludella																											
squarrosa (Hedw.) Brid.							X										X										
CATASCOPIACEAE																											
Catoscopium																											
nigritum (Hedw.) Brid.						X																					
BARTRAMIACEAE																											
Bartramia																											
ithyphylla Brid.											L																
pomiformis Hedw. var. pomiformis		X	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	X		X	X		
var. elongata Turn.																					X						
Conostomum																											
tetragonum (Hedw.) Lindb.					X																						
Philonotis																											
fontana (Hedw.) Brid. var. fontana		X	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	X		X	X		X
var. americana (Dism.) Flow. ex Crum ...											X																
var. caespitosa (Jur.) Schimp.											L		L		X		L	X		X		L	X		X		
longiseta (Michx.) Britt. var. longiseta															?												
var. porteri (Aust.) Flow.									X																		
marchica (Hedw.) Brid.									X	X	X		X		X		X	X		X		X					
muhlenbergii (Schwaegr.) Brid.			X	L							L	X					X	X									
Plagiopus																											
oederiana (Sw.) Limpr.		X	X			X			X	X	X		X		X		X	X		X				X			X
TIMMIACEAE																											
Timmia																											
megapolitana Hedw.						X	X	X	X		X		X	X	X	X	X	X						X			X

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
ORDER ISOBRYALES																										
PTYCHOMITRIACEAE																										
Campylostelium																										
saxicola (Web. & Mohr) B.S.G.																						X				
Ptychomitrium																										
incurvum (Schwaegr.) Spruce																						X		X	X	X
ORTHOTRICHACEAE																										
Amphidium																										
lapponicum (Hedw.) Schimp.			X	X					X		X			X			X	X		X		X				
mougeotii (B.S.G.) Schimp.			X	X													X	X		X						
Drummondia																										
prorepens (Hedw.) Britt.				X			L		X		X	X	X				X	X		X					X	
Orthotrichum																										
anomalum Hedw.	X	X	X	X	X	X		X		X	X	X	X	X			X	X								
cupulatum Brid.					X	L					X														X	
obtusifolium Brid.	X		X	X				X	X		X			X			X	X		X						
ohioense Sull. & Lesq. ex Aust.	X		M	X				X	X		X	X		X			X	X		X		X		X	X	X
pumilum Sw.		X	L	X				X	X	L	X		X	X	X		X	X	X	X		X	X		X	X
pusillum Mitt.							X						X	X			X	X						L	L	X
sordidum Sull. & Lesq. ex Aust.																			X	X		X				
speciosum Nees ex Sturm. var. elegans																										
(Schwaegr. ex Hook. & Grev.) Warnst.			X	X			X		X		X						X	X								
stellatum Brid.			X														X	X		X				L		X
strangulatum P.-Beauv.				X		X			X		X	X	X	X			X	X		X		X	L		X	
Ulota																										
coarctata (P.-Beauv.) Hamm.		X	X	X					X	X	X	X	X	X			X	X		X		X		L		
crispa (Hedw.) Brid.	X	X	X	X		X	X	X	X	X	X	V	X	L	X		X	X	X	X		X	X	X	L	X
hutchinsiae (Sm.) Hamm. var. hutchinsiae	X	X	X	X		X		X	X	X	X		X	X	X		X	X		X		X	X	X	X	
var. rufescens (Britt.) Dix.										X																
Zygodon																										
viridissimus (Dicks.) Brid. var.																										
rupestris Lindb. ex C. J. Hartm.		X	X														X									
FONTINALACEAE																										
Dichylema																										
capillaceum (With.) Myr.			X	X				X	X	X	X	X	X	X	X		X	X		X		X	X	X	X	X
falcatum (Hedw.) Myr.									X				X				X	X								
pallens B.S.G.			X					X	X	X	X	X		X										X		
uncinatum Mitt.			M																							
Fontinalis																										
antipyretica Hedw.	X	X	X					X	X		X		X	X	L		X	X		X		X	X		X	X
dalecarlica Schimp. ex B.S.G.		X	X			X		X	X		L		L		X		X	X	X	X				X		
flaccida Ren. & Card.		X																				L				
hypnoides C. J. Hartm. var. hypnoides													V	L												
var. duriaei (Schimp.) Husn.	X					X		X	X		X		X	X	X		X									
novae-angliae Sull. var. novae-angliae	X	X	L			X		X	X		X		X	L	X		X	X		X		X	X	X	X	X
var. cymbifolia (Aust.) Welch			X														X	X								
var. latifolia Card. ex Nich.						X		X						X			X									
sullivantii Lindb.						X					X							X				X	X		L	X
CLIMACIACEAE																										
Climacium																										
americanum Brid.	X		X	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
dendroides (Hedw.) Web. & Mohr		X	X	X		X	X		X		X		X	X	X		X	X	X	X					X	
HEDWIGIACEAE																										
Hedwigia																										
ciliata (Hedw.) P.-Beauv.	X	X	X	X	X	X		X	X	X	X		X	L	X		X	X	X	X		X	X	X	X	X
CRYPHAEACEAE																										
Forsstroemia																										
trichomitria (Hedw.) Lindb.							X	X			X		X	X			X	X		X						

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
LEUCODONTACEAE																											
Leucodon																											
brachypus Brid. var. brachypus				X					X	X	X		X	X		X	X	X			X						
var. andrewsianus Crum & Anderson	X	X	X	X		X	X	X	X	X	X		L	X	X	X	X	X				X	X				
julaceus (Hedw.) Sull.				X						X	X		X			L			X		X	X		X	L		
NECKERACEAE																											
Homalia																											
trichomanoides (Hedw.) B.S.G.			X	X						X	X			X		X	X	X		X							
Neckera																											
complanata (Hedw.) Hueb.																				L							
pennata Hedw. var. pennata			X	X						X	X		X	X	X	X	X	X		X						X	
var. tenera C. Muell.				X						L	X					V											
Thamnobryum																											
alleghaniense (C. Muell.) Nieuwl.	X		X	X	X			X			X		X	X	X	X	X	X		X	X	X					
ORDER HYPNOBRYALES																											
THELIACEAE																											
Myurella																											
julacea (Schwaegr.) B.S.G.			X	X							X					X			X								
sibirica (C. Muell.) Reim.			X	X				X	X		X		X	X	X	L	X	X		X							
Thelia																											
asprella Sull.							X		X		X		X	X	X	X	X	X	X	X	X	X		L	X	X	
hirtella (Hedw.) Sull.						X							X	L	X	X	X	X			X	X	X	X	X	X	
lescurii Sull.											X							X		X	X	X	X	L		X	
FABRONIACEAE																											
Anacamptodon																											
splachnoides (Froel. ex Brid.) Brid.			X	X							X		X		X		X	X		X						X	
Schwetschkeopsis																											
fabronia (Schwaegr.) Broth.											?			?					X		X						
LESKEACEAE																											
Leskea																											
gracilescens Hedw.						L							X	L		X					V						
obscura Hedw.						X		X			X		X	L	X		X	X				X		X	X		
polycarpa Hedw.	X			X		X		X	X	X	X	X	X	X	X	L	X	X						X	X		
Leskeella																											
nervosa (Brid.) Loeske			X	X	X				X	X			X				X										
Lindbergia																											
brachyptera (Mitt.) Kindb.		L									V			X				L			X						
Pseudoleskeella																											
tectorum (Funck ex Brid.) Kindb. ex Broth.					X																						
Pterigynandrum																											
filiforme Hedw.	X		X	X						X	X	X					X	X		X							
THUIDIACEAE																											
Anomodon																											
attenuatus (Hedw.) Hueb.	X	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	
minor (Hedw.) Fuernr.			X	X	X	L		X			X		X	X	X	L	X	X		X							
rostratus (Hedw.) Schimp.	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
rugelii (C. Muell.) Keissl.			X	X	X	X		X	X	X	X		X		X	X	X	X		X					X		
viticulosus (Hedw.) Hook. & Tayl.	X			X	V			X	X		X			X	X		X	X									
Haplocladium																											
microphyllum (Hedw.) Broth.					X	X				L	X		X	L	X		X	X				X		L	X	X	
virginianum (Brid.) Broth.						X					X	X	V		X		X		X		X			X			
Haplohymenium																											
triste (Ces. ex De Not.) Kindb.														X			X	X						X	X		
Helodium																											
blandowii (Web. & Mohr) Warnst. var.																											
blandowii		X	X	X		X		X	X	X	X		X	X	X	X	X	X	X			X					
var. helodioides (Ren. & Card. ex Roell)																											
Crum, Steere & Anderson																									L		
paludosum (Sull.) Aust.				X							X		X	X	X		X	X			X	X	X	X	X	X	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Heterocladium																											
dimorphum (Brid.) B.S.G.			X	V																							
Thuidium																											
abietinum (Hedw.) B.S.G.	X	X	X	X	X	X		X	X	X	X		X				X	X		X	X	X			X		
allenii Aust.						L															M						
delicatulum (Hedw.) B.S.G. var. delicatulum	X	X	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	
var. radicans (Kindb.) Crum, Steere & Anderson			X	X	X								L	X			X	X					X				
minutulum (Hedw.) B.S.G.			X	X		L			X		X		V	X	X		X	X					X				
pygmaeum B.S.G.					X	X		X			X						X			X							
recognitum (Hedw.) Lindb.		X	M	X		X		X	X	X	X		X	X	X		X	X		X				X	X		
scitum (P.-Beauv.) Aust.			X	X							X		L	X			X	X			X			X	L		
AMBLYSTEGIACEAE																											
Amblystegium																											
juratzkanum Schimp.				M	X	X		X	X	X	L	X	X	X	X		X								X		
serpens (Hedw.) B.S.G.	X	X	X	X	X	X	X	X		X	X		X	X	X		X	X		X	X	L		X	X		
varium (Hedw.) Lindb. var. varium	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		L	X	X		X	X	X	X	X		
var. lancifolium Grout						X							X												L		
Calliergon																											
cordifolium (Hedw.) Kindb.		X	X	X		X		X	X	X	X	X	X	X	X		X	X	X				X	X		X	
giganteum (Schimp.) Kindb.		X					X	X			X		X	X	X		X					X	X			X	
sarmentosum (Wahlenb.) Kindb.				X																							
stramineum (Brid.) Kindb.			X	X					X		X		X														
trifarum (Web. & Mohr) Kindb.						X																					
Calliergonella																											
cuspidata (Hedw.) Loeske		X	X	X		X			X	X	X		L	L	X		X	X		X		X	L		X	X	
Campylium																											
chrysophyllum (Brid.)																											
J. Lange var. chrysophyllum	X	X	X	X		X		X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	L		
var. brevifolium (Ren. & Card.) Grout										X																	
hispidulum (Brid.) Mitt.	X		X	X		X	X	X	X	X	X	X	X	X	X			X	X	X		X		X	X	X	
polygamum (B.S.G.) Jens.			X			X		X			X		X	X	X		V	X		X						V	
radicale (P.-Beauv.) Grout			M	L						L			V		X		X	X		X		X	X	X			
stellatum (Hedw.) C. Jens. var. stellatum					X	X		X	X		X	X	X		X		X	X		X	X						
var. protensum (Brid.) Bryhn																											
ex Grout										V																X	
Cratoneuron																											
commutatum (Hedw.) Roth						L					?				X												
filicinum (Hedw.) Spruce					X	X		X	X		X	X	X	X	X		X	X	X				X	X	X	X	
Drepanocladus																											
aduncus (Hedw.) Warnst. var. aduncus			X	X		X		X		X	X		X	X	X		X	X	X	V		X	X		X	X	
var. capillifolius (Warnst.) Riehm.															X												
var. kneiffii (B.S.G.) Moenk.						X			X	X	X		X	X	X		X	X								V	
exannulatus (B.S.G.) Warnst.			X	X		X	X	X	X	X	X		X	X	X		X	X		X				L	X	X	
fluitans (Hedw.) Warnst.	X	X	X			X	X	X		X	X	X	X	X	X		X	X	X	X		X	X		X	X	
revolvens (Sw.) Warnst.			X	X		X					X			X	X		X	X	X			X					
uncinatus (Hedw.) Warnst.			X	X					X		X		X	X			X	X		X			X				
vernicosus (Lindb. ex C. Hartm.) Warnst.			X	X		X		X			X			X	X		X	X		X							
Hygroamblystegium																											
fluviatile (Hedw.) Loeske			X			X			X		L		X	X	X		X	X		X		X	X		X	X	
noterophilum (Sull. & Lesq. ex Sull.) Warnst.														X								X					
tenax (Hedw.) Jenn.	X	X	X	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	V	X	X	X	
Hygrohypnum																											
closteri (Aust.) Grout																				X							
eumontanum Crum, Steere & Anderson			X	X					X				L				X										
eugyrium (B.S.G.) Loeske			X	X				X	X		X	X	X	X	X		X	X	X	X						X	
luridum (Hedw.) Jenn.		X		X				X					X	X	X		X										
molle (Hedw.) Loeske			X	X					X		L		X				X	X		X							
novae-caesareae (Aust.) Grout																	X		X								
ochraceum (Turn. ex Wils.) Loeske			X	X				X	X			X	X	X	X		X	X	X	X				X			

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Leptodictyum																										
riparium (Hedw.) Warnst.	X	X	X	X		X		X	X	X	X	L	X	X	X	X	X	X	X	X	X	X	X	X	X	X
trichopodium (Schultz) Warnst.					X	L	X	L			L		X	X		X							L	X		X
vacillans (Sull.) Broth.																	X									
Sciaromium																										
lescurii (Sull.) Broth.			X							X									X						X	
Scorpidium																										
scorpioides (Hedw.) Limpr.			X	X		X	X	X		X	X		X	X		X						X				X
BRACHYTHECIACEAE																										
Brachythecium																										
acuminatum (Hedw.) Aust.			X	X		X		X		L	X		X	L	X	X	X	X	X		X	X		X	X	
acutum (Mitt.) Sull.					X	X				X	L		L	X	X		X	X					L	X		X
calcareum Kindb.			X			X		X		X			X	X										X		
campestre (C. Muell.) B.S.G.			X	X		L					X		X	X	X	X	X	X	X		X			L		X
curtum (Lindb.) Limpr.			X	X						X	X		X		X		X		X							
digastrum C. Muell. & Kindb. ex																										
Macoun & Kindb.											L											?	V			
erythrorrhizon B.S.G.					L																					
oxycladon (Brid.) Jaeg. & Sauerb. var.																										
oxycladon	X		X	X	X	X		X		X	X	X	X	X	X	L	X	X	X			X	X	L	X	X
var. dentatum (Lesq. & James) Grout			X								L					L							L	L		
plumosum (Hedw.) B.S.G.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X
populeum (Hedw.) B.S.G. var. populeum ...			X	M		X		X		X	X	X	X	X		X						X		X		X
var. rufescens B.S.G.																V										
reflexum (Starke ex Web. & Mohr) B.S.G. ...			X	X						X	X	X	X			X	X	X	X							
rivulare B.S.G.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
rutabulum (Hedw.) B.S.G.		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X
salebrosum (Web. & Mohr) B.S.G. var.																										
salebrosum			X	X	X	X	X	X	X	X	X		X	X	X	L	X	X	X				X	X		X
var. flaccidum B.S.G.										V																
velutinum (Hedw.) B.S.G.			X	X									X	L	X	X	X	X	X		X					X
Bryhnia																										
graminicolor (Brid.) Grout			X	X		X			X		X	X	X	X	X	X	X				X		X	X		X
novae-angliae (Sull. & Lesq. ex Sull.) Grout .		X	X	X		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bryoandersonia																										
illecebra (Hedw.) Robins.								X			X	X		X			X	X		X	X	X	X	X	X	X
Cirriphyllum																										
piliferum (Hedw.) Grout									X		X	X	X				X					X				
Eurhynchium																										
hians (Hedw.) Sande Lac.						X	X	X		X	X	X	X	X	X	X	X				X	L		X	X	X
pulchellum (Hedw.) Jenn.	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		L	X	
riparioides (Hedw.) Rich.		X	X	X		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X			L	
Homalotheciella																										
subcapitata (Hedw.) Broth.					L									X			X							X		
Isoetecium																										
eumyosuroides Dix.															X											
Rhynchostegiella																										
compacta (C. Muell.) Loeske															X											
Rhynchostegium																										
serrulatum (Hedw.) Jaeg. & Sauerb.	X		X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Tomenthypnum																										
nitens (Hedw.) Loeske var. nitens						X			X	X	X	X	X		X	X						X				
var. falcifolium (Ren. ex Nichols.) Podp. .											X															
ENTODONTACEAE																										
Entodon																										
brevisetus (Hook. & Wils. ex Wils.) Lindb. .																			X							
cladorrhizans (Hedw.) C. Muell.			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X			X		
seductrix (Hedw.) C. Muell.	X					X		X	X		X	X	X	X	X	L	X	X	X	X	X	X	X			
Pleurozium																										
schreberi (Brid.) Mitt.	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
PLAGIOTHECIACEAE																											
Plagiothecium																											
cavifolium (Brid.) Iwats. var. cavifolium				X	X			X		L	X	X		X	X	X	X		X	X				X		X	
var. fallax (Card. ex Thér.) Iwats.	X	X	X	X		X	X	X		X		L			X	X		X	X	X		X		X			
denticulatum (Hedw.) B.S.G.	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X		X
laetum B.S.G.				X	M			X		X	X		X											X			
latebricola B.S.G.						X	X	L		L			X	X	X	X				X		X	X		X		V
SEMATOPHYLLACEAE																											
Brotherella																											
recurvans (Michx.) Fleisch.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
tenuirostris (Bruch & Schimp. ex Sull.) Fleisch.										X				X	X	X		X	V								
Sematophyllum																											
adnatum (Michx.) Britt.												?													X	X	X
demissum (Wils.) Mitt.										L		L		X			V			X		X	X	X	L	X	
marylandicum (C. Muell.) Britt.										X										X							
HYPNACEAE																											
Callicladium																											
haldanianum (Grev.) Crum		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	L	X	X	X	X	X
Ctenidium																											
molluscum (Hedw.) Mitt.						X	X	L			X	X	X	X	X	X	X	X	X			X		X	L		X
Herzogiella																											
striatella (Brid.) Iwats.		X	X	X		X	X	L	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X
turfæa (Lindb.) Iwats.			X	X		X			X	X	X		X	X	X	X	X	X	X	X	X	X	X				X
Homomallium																											
adnatum (Hedw.) Broth.	X		X			X	X	X		X		X	X	X	X	X	L	X	X			X	X		X	X	X
Hypnum																											
cupressiforme Hedw.				X		X		X		X	X			X	X		X		X	X		X	X	X	X	X	X
curvifolium Hedw.		X		X	X	X		X	X	X	X	X		X	X	X	X	X	X	X		X		X	X		X
fertile Sendtn.			X	X		X	L		X		X		X		X		X	X	X		X						
imponens Hedw.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
lindbergii Mitt.	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X
pallascens (Hedw.) P.-Beauv.	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X
pratense Koch ex Brid.									X	X	X		X	X	X	X	X	X			X		X	X	X		
Isopterygiopsis																											
muelleriana (Schimp.) Iwats.				X							L			L	X		X		X								
Isopterygium																											
distichaceum (Mitt.) Jaeg. & Sauerb.			X	X													V										
elegans (Brid.) Lindb.		X	X	X				X	X	X	X	X		X			X		X						X		
pulchellum (Hedw.) Jaeg. & Sauerb.			X	X					X	X	X		X		X		X	X		X							
tenerum (Sw.) Mitt.						X	L						X						X			X		X	X	X	X
Platydictya																											
confervoides (Brid.) Crum	X		X		X	L					X		X	L	X	X	X	L		X							
jungermannioides (Brid.) Crum					X				X																		
minutissima (Sull. & Lesq. ex Sull.) Crum	X				X						?																
subtile (Brid.) Crum			X	X	L	X	X	X		X				L			X	X							X		
Platygyrium																											
repens (Brid.) B.S.G.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X
Ptilium																											
crista-castrensis (Hedw.) De Not.		X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X					X		
Pylaisiella																											
intricata (Hedw.) Grout			X	X		X			X	X	X	X		X		X	X	X		X		X		X	X		
polyantha (Hedw.) Grout			M							X	X			X		X	X								X		
selwynii (Kindb.) Crum, Steere & Anderson			X	X					X	X	X	X		X	L	X	X	X	X			L			X		
Taxiphyllum																											
deplanatum (Bruch & Schimp. ex Sull.) Fleisch.	X			X			X		X		X		L	L	X	X	X	X	X						X		
taxirameum (Mitt.) Fleisch.						L				L					X		X	X									

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
RHYTIDIACEAE																											
Rhytidiadelphus																											
squarrosus (Hedw.) Warnst.			X	X				X	X		X		X	X			X	X	X			V					
triquetrus (Hedw.) Warnst.	X	X	X	X		X		X	X	X	X		X	X	X		X	X	X	X	X	X	X		L	L	
Rhytidium																											
rugosum (Hedw.) Kindb.	X		X	X	X				X		X		X	X	X		X	X		X							
HYLOCOMIACEAE																											
Hylocomium																											
brevirostre (Brid.) B.S.G.			X		X		X	X	X	X	X		X	X	X	X	X	X	X	X	X						
pyrenaicum (Spruce) Lindb.			X	X							X						X										
splendens (Hedw.) B.S.G.	X	X	X	X				X	X	X	X		X	X	X	X	X	X	X	X					X		
umbratum (Hedw.) B.S.G.			X	X					X	X	L						X			X					X		
ORDER BUXBAUMIALES																											
BUXBAUMIACEAE																											
Buxbaumia																											
aphylla Hedw.		X						X	X	L	X		X		X		X	X	X	X		X	X		X		X
minakatae Okam.			X	X				X	L	L	X			X	X		L										
Diphyscium																											
foliosum (Hedw.) Mohr		X	X	X		L	X	X		X	X	X	X	X	X		X	X	X	X		X	X	V	L	X	X
ORDER TETRAPHIDALES																											
TETRAPHIDACEAE																											
Tetraphis																											
pellucida Hedw.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
Tetradontium																											
brownianum (Dicks.) Schwaegr.					X																						
ORDER POLYTRICHALES																											
POLYTRICHACEAE																											
Atrichum																											
altecristatum (Ren. & Card.) Irel.		X	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X		X
angustatum (Brid.) B.S.G.	X	X	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X		X
crispum (James) Sull.			X	X				X	X	X	X													X	X		X
oerstedianum (C. Muell.) Mitt.			X	X							X						X	X			X						
undulatum (Hedw.) P.-Beauv.			X																								
Pogonatum																											
alpinum (Hedw.) Roehl.			X	X						X	X						X	X		X							
brachyphyllum (Michx.) P.-Beauv.																						X					
dentatum (Brid.) Brid.				X													X										
pensilvanicum (Hedw.) P.-Beauv.		X	X	X		X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
urnigerum (Hedw.) P.-Beauv.			X	X						X	X						X			X		X					
Polytrichum																											
commune Hedw.	X	X	X	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
formosum Hedw.			X	X											X		X										
longisetum Brid.				X						L	L						X	X									
juniperinum Hedw.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
ohioense Ren. & Card.		X	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X		X	X	X
pallidisetum Funck			X	X							X			X			X	X	X								
piliiferum Hedw.	X	X	X	X		X		X	X	X	X	X	X	X			X	X	X	X		X	X	X	X	X	X
strictum Brid.		X	X	X		X		X			X	X	X	X			X	X	X	X							

ADDITIONS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

INDEX TO GENERA AND FAMILIES

A

	PAGE
Acaulon	6
Amblyodon	9
AMBLYSTEGIACEAE	12
Amblystegium	12
Amphidium	10
Anacamptodon	11
Andreaea	4
ANDREAEACEAE	4
Anoetangium	6
Anomodon	11
Aphanorrhagma	7
ARCHIDIACEAE	4
Archidium	4
Arctoa	5
Astomum	6
Atrichum	15
AULACOMNIACEAE	9
Aulacomnium	9

B

Barbula	6
Bartramia	9
BARTRAMIACEAE	9
Blindia	4
BRACHYTHECIACEAE	13
Brachythecium	13
Brotherella	14
Bruchia	5
BRYACEAE	8
Bryhnia	13
Bryoandersonia	13
Bryoerythrophyllum	6
Bryum	8
Buxbaumia	15
BUXBAUMIACEAE	15

C

Callicladium	14
Calliergon	12
Calliergonella	12
CALYMPERACEAE	5
Campylium	12
Campylostelium	10
CATOSCOPIACEAE	9
Catoscopium	9
Ceratodon	4
Cinclidium	9
Cirriphyllum	13

PAGE

CLIMACIACEAE	10
Climacium	10
Conostomum	9
Cratoneuron	12
CRYPHAEACEAE	10
Ctenidium	14
Cynodontium	5

D

Desmatodon	6
Dichelyma	10
Dichodontium	5
DICRANACEAE	5
Dicranella	5
Dicranodontium	5
Dicranoweisia	5
Dicranum	5
Didymodon	6
Diphyscium	15
DISCELIACEAE	7
Discelium	7
Distichium	4
DITRICHACEAE	4
Ditrichum	4
Drepanocladus	12
Drummonida	10

E

Encalypta	6
ENCALYPTACEAE	6
Entodon	13
ENTONDONTACEAE	13
EPHEMERACEAE	7
Ephemerum	7
Eurhynchium	13

F

FABRONIACEAE	11
Fissidens	4
FISSIDENTACEAE	4
FONTINALACEAE	10
Fontinalis	10
Forsstroemia	10
Funaria	7
FUNARIACEAE	7

G	PAGE
Grimmia	7
GRIMMIACEAE	7
Gymnostomum	6

H	
Haplocladium	11
Haplohymenium	11
Hedwigia	10
HEDWIGIACEAE	10
Helodium	11
Herzogiella	14
Heterocladium	12
Homalia	11
Homalotheciella	13
Homomallium	14
Hygroamblystegium	12
Hygrohypnum	12
HYLOCOMIACEAE	15
Hylocomium	15
Hyophila	6
HYPNACEAE	14
Hypnum	14

I	
Isopterygiopsis	14
Isopterygium	14
Isothecium	13

K	
Kiaeria	5

L	
Leptobryum	8
Leptodictyum	13
Leskea	11
LESKEACEAE	11
Leskeella	11
LEUCOBRYACEAE	5
Leucobryum	5
Leucodon	11
LEUCODONTACEAE	11
Lindbergia	11

M	
Meesia	9
MEESIACEAE	9
Micromitrium	7
Mielichhoferia	8
MNIACEAE	9
Mnium	9
Myurella	11

N	PAGE
Neckera	11
NECKERACEAE	11

O	
Oncophorus	5
ORTHOTRICHACEAE	10
Orthotrichum	10

P	
Paludella	9
Paraleucobryum	5
Phascum	6
Philonotis	9
Physcomitrella	7
Physcomitrium	7
Plagiopus	9
PLAGIOTHECIACEAE	14
Plagiothecium	14
Platydictya	14
Platygyrium	14
Pleuridium	4
Pleurozium	13
Pogonatum	15
Pohlia	8
POLYTRICHACEAE	15
Polytrichum	15
Pottia	6
POTTIACEAE	6
Pseudoleskeella	11
Pterigynandrum	11
Ptilium	14
PTYCHOMITRIACEAE	10
Ptychomitrium	10
Pylaisiella	14

R	
Racomitrium	7
Rhabdoweisia	5
Rhodobryum	8
Rhynchostegiella	13
Rhynchostegium	13
Rhytidiadelphus	15
Rhytidium	15

S	
Saelania	4
Schistostega	8
SCHISTOSTEGACEAE	8
Schwetschkeopsis	11
Sciaromium	13
Scorpidium	13
Seligeria	4

	PAGE
SELIGERiaceae	4
SEMATOPHYLLACEAE	14
Sematophyllum	14
SPHAGNACEAE	3
Sphagnum	3
SPLACHNACEAE	8
Splachnum	8
Syrrhopodon	5

T

Taxiphyllum	14
Tayloria	8
TETRAPHIDACEAE	15
Tetraphis	15
Tetraplodon	8
Tetrodontium	15
Thamnobryum	11
Thelia	11
THELIACEAE	11

	PAGE
THUIDIACEAE	11
Thuidium	12
Timmia	9
TIMMIACEAE	9
Tomenthypnum	13
Tortella	6
Tortula	6
Trematodon	5
Trichostomum	6

U

Ulotia	10
--------------	----

W

Weissia	6
---------------	---

Z

Zygodon	10
---------------	----

Contributions Completed to Date¹

1. Mitchell, Richard S. and J. Kenneth Dean, 1978. Polygonaceae, (Buckwheat Family) of New York State. Contributions to a Flora of New York State I. N. Y. State Museum Bull. No. 431, 81 p.
2. Mitchell, Richard S. and Ernest O. Beal, 1979. Magnoliaceae through Ceratophyllaceae of New York State. Contributions to a Flora of New York State II. N. Y. State Museum Bull. No. 435, 62 p.
3. Ketchledge, Edwin H. 1980. Revised Checklist of the Mosses of New York State. Contributions to a Flora of New York State, Checklist I. N. Y. State Museum Bull. No. 440, 19 p.

¹ To purchase copies of these publications, contact:

Gift & Exchange Section
New York State Library
Albany, New York 12234

